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- Applied Optics, Vol. 37 Issue 21, pp.4750-4757 (1998)
- Kokhanovsky, Alexander A; Nakajima, Teruyuki; Zege, Eleonora P
- We propose the physically based parameterization of the radiative characteristics of liquid-water clouds as functions of the wavelength, effective radius, and refractive index of...

Mitigation of Beat Noise in Time–Wavelength Optical Code-Division Multiple-Access Systems

- Journal of Lightwave Technology, Vol. 24 Issue 11, pp.4215-4222 (2006)
- Bazan, Taher M; Harle, David; Andonovic, Ivan
- This paper presents an analysis of two methods for enhancing the performance of two-dimensional time–wavelength Optical code-division multiple-access systems by mitigating the...

Monte Carlo and discrete-ordinate simulations of spectral radiances in a coupled air-tissue system

- Applied Optics, Vol. 46 Issue 12, pp.2333-2350 (2007)
- Hestenes, Kjersti; Nielsen, Kristian P; Zhao, Lu; Stamnes, Jakob J; Stamnes, Knut
- We perform a detailed comparison study of Monte Carlo (MC) simulations and discrete-ordinate radiative-transfer (DISORT)

calculations of spectral radiances in a 1D coupled air-tissue...

The Impact of Group Velocity on Frequency-Hopping Optical Code Division Multiple Access System

- Journal of Lightwave Technology, Vol. 19 Issue 10, pp.1416- (2001)
- Zuo, Chao; Ma, Wenhua; Pu, Hongtu; Lin, Jintong
- In this paper, we develop a systematic method that employs transfer function considering encoder, fiber channel, and decoder to analyze the frequency-hopping (FH) optical code-division...

New Paradigm for Imaging Systems

- Applied Optics, Vol. 41 Issue 29, pp.6080-6092 (2002)
- Cathey, W Thomas; Dowski, Edward R
- We describe a new paradigm for designing hybrid imaging systems. These imaging systems use optics with a special aspheric surface to code the image so that the point-spread function...

New model for light propagation in highly inhomogeneous polydisperse turbid media with applications in spray diagnostics

- Optics Express, Vol. 13 Issue 23, pp.9181-9195 (2005)
- Berrocal, Edouard; Meglinski, Igor; Jermy, Mark
- Modern optical diagnostics for quantitative characterization of polydisperse sprays and other aerosols which contain a wide range of droplet size encounter difficulties in the dense...

Analytical modeling of adaptive optics: foundations of the phase spatial power spectrum approach

- JOSA A, Vol. 23 Issue 2, pp.382-394 (2006)
- Jolissaint, Laurent; Véran, Jean-Pierre; Conan, Rodolphe
- End-to-end simulation of adaptive optics (AO) systems allows high-fidelity modeling of system performance, but at the cost of long computation time. Analytical modeling, on the other...

BER Performance of Turbo-Coded PPM CDMA Systems on Optical Fiber

- Journal of Lightwave Technology, Vol. 18 Issue 12, pp.1776- (2000)
- Ohtsuki, Tomoaki; Kahn, Joseph M
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Parameterized code SHARM-3D for radiative transfer over inhomogeneous surfaces

- Applied Optics, Vol. 44 Issue 35, pp.7602-7610 (2005)
- Lyapustin, Alexei; Wang, Yujie
- The code SHARM-3D, developed for fast and accurate simulations of the monochromatic radiance at the top of the atmosphere over spatially variable surfaces with Lambertian or...

Measured and Modeled Radiometric Quantities in Coastal Waters: Toward a Closure

- Applied Optics, Vol. 42 Issue 27, pp.5365-5381 (2003)
- Bulgarelli, Barbara; Zibordi, Giuseppe; Berthon, Jean-François
- Accurate radiative transfer modeling in the coupled atmosphere-sea system is increasing in importance for the development of advanced remote-sensing applications. Aiming to quantify...

Radiometric calibration of SeaWiFS in the near infrared

- Applied Optics, Vol. 44 Issue 36, pp.7828-7844 (2005)
- Martiny, Nadège; Frouin, Robert; Santer, Richard
- The radiometric calibration of the Sea-Viewing Wide-Field-of-View Sensor (SeaWiFS) in the near infrared (band 8, centered on 865 nm) is evaluated by use of ground-based radiometer...

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